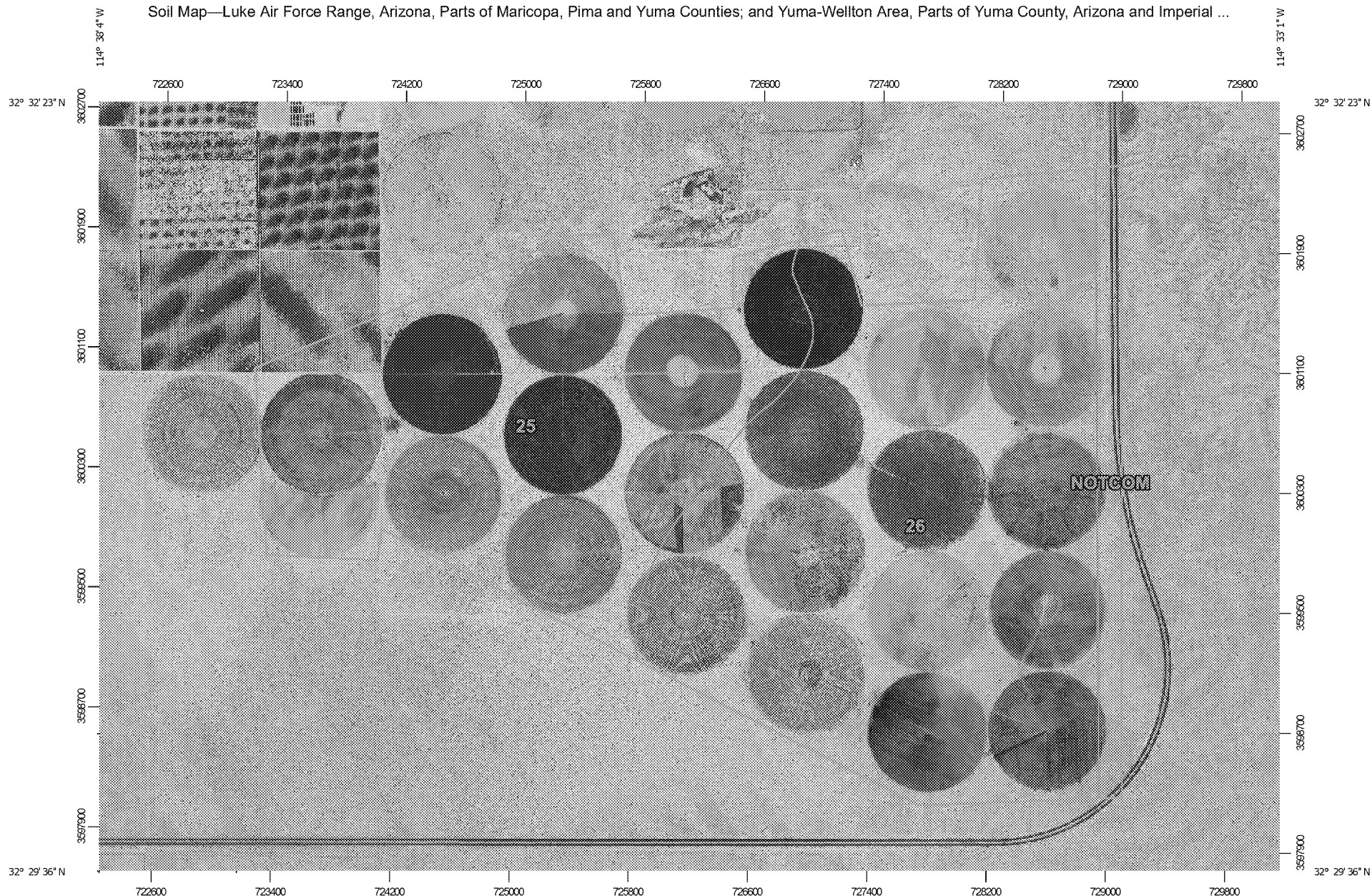


Soil Map—Luke Air Force Range, Arizona, Parts of Maricopa, Pima and Yuma Counties; and Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial ...



Map Scale: 1:36,200 if printed on A landscape (11" x 8.5") sheet.

0 500 1000 2000 3000 Meters

0 1500 3000 6000 9000 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84



**Natural Resources
Conservation Service**


Web Soil Survey
National Cooperative Soil Survey

10/11/2019
Page 1 of 3


ED_005676_00000423-00001


MAP LEGEND


Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:24,000 to 1:125,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Luke Air Force Range, Arizona, Parts of Maricopa, Pima and Yuma Counties

Survey Area Data: Version 14, Sep 16, 2019

Soil Survey Area: Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California

Survey Area Data: Version 15, Sep 16, 2019

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 20, 2015—Nov 8, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
NOTCOM	No Digital Data Available	173.0	4.4%
Subtotals for Soil Survey Area		173.0	4.4%
Totals for Area of Interest		3,954.0	100.0%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
25	Rositas sand	1,545.1	39.1%
26	Rositas-Ligurta complex	2,235.9	56.5%
Subtotals for Soil Survey Area		3,781.0	95.6%
Totals for Area of Interest		3,954.0	100.0%

Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California

26—Rositas-Ligurta complex

Map Unit Setting

National map unit symbol: 1sfj
Elevation: 200 to 400 feet
Mean annual precipitation: 5 to 10 inches
Mean annual air temperature: 72 to 76 degrees F
Frost-free period: 250 to 325 days
Farmland classification: Not prime farmland

Map Unit Composition

Rositas and similar soils: 55 percent
Ligurta and similar soils: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rositas

Setting

Landform: Terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed eolian sands

Typical profile

A - 0 to 5 inches: sand
C - 5 to 60 inches: sand

Properties and qualities

Slope: 0 to 20 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 13.0
Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A
Ecological site: Deep Sand 3-7" p.z. (R040XD423AZ)
Hydric soil rating: No

Description of Ligurta

Setting

Landform: Dunes
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium

Typical profile

A - 0 to 2 inches: very gravelly loam
Btkn - 2 to 60 inches: gravelly clay loam

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 25 percent
Salinity, maximum in profile: Strongly saline (16.0 to 32.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 45.0
Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Unnamed soils

Percent of map unit: 15 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luke Air Force Range, Arizona, Parts of Maricopa, Pima and Yuma Counties

Survey Area Data: Version 14, Sep 16, 2019

Soil Survey Area: Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California

Survey Area Data: Version 15, Sep 16, 2019

Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California

25—Rositas sand

Map Unit Setting

National map unit symbol: 1sfh

Elevation: 80 to 700 feet

Mean annual precipitation: 5 to 10 inches

Mean annual air temperature: 72 to 76 degrees F

Frost-free period: 250 to 325 days

Farmland classification: Farmland of unique importance

Map Unit Composition

Rositas and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rositas

Setting

Landform: Alluvial fans, dunes, terraces

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Mixed eolian sands

Typical profile

A - 0 to 5 inches: sand

C - 5 to 60 inches: sand

Properties and qualities

Slope: 2 to 15 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): 4s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: Deep Sand 3-7" p.z. (R040XD423AZ)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luke Air Force Range, Arizona, Parts of Maricopa, Pima and Yuma Counties

Survey Area Data: Version 14, Sep 16, 2019

Soil Survey Area: Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California

Survey Area Data: Version 15, Sep 16, 2019